



QC ABSTRACT

NAME OF WORK: Package-2, Includes 3 works 1) Desilting and Repairs to Side Walls of Storm Water Drain From Byatarayanapura Ayyappa Temple Road to Bata Showroom (near NH-7 Bellary Road) From L and T Compound to Venkatesh Reddy House at Byatarayanapura, From Kriyanna House to Mandi Appaiah Farm House and From Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and Improvements of Toilets in Kempura, Yogeshnagara, Amruthanagara and Surrounding Areas in Ward No.07, Byatarayanapura. 3) Improvements to Burial Grounds and Crematorium in Ward No.07, Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	8.53	4	4

Assistant Executive Engineer
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8	PCC(M20)	Compressive Strength(7days and 28days)	2 set /6-15 cum	13.95	4	4
9	RMC(M20)	Compressive Strength(7days and 28days)	3 set /16-30 cum	22.39	6	6
10	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
11	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
12	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

Noted. N.D.
AE (24)


Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-01-28-80 Date: 05-09-20
 Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
 Address : Kodigehalli Sub Division, BBMP, Bangalore.
 Project Name : Package-2, includes 3 works 1) Desilting and Repairs to Side Walls of Storm Water Drain From Byatarayanapura Ayyappa Temple Road to Bata Showroom (near NH-7 Bellary Road) From L and T Compound to Venkatesh Reddy House at Byatarayanapura, From Kriyanna House to Mandi Appaiah Farm House and From Gullappa Nursery (NH-7) to Amrutiahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and Improvements of Toilets in Kempura, Yogeshinagara, Amruthanagara and Surrounding Areas in Ward No.07, Byatarayanapura. 3) Improvements to Burial Grounds and Crematorium in Ward No.07, Byatarayanapura.
 Agency : M/s.Nischal Constructions, Sri.Naveen Rao N, No.363, 10th Main, 1st Cross, Sampigelaya, Vijayanagara, Bangalore-560 079.
 Customer's Reference : BBMP/EE/BTP/WO/71/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 01-09-20
 Sample Type : Birla Super 53 grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification, IS 4031 (Part 1, 2, 3, 4, 5, 6, 11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY, Clause 6

Date of test : 02-09-20

Environmental Conditions during test :

Temperature: 26°C

Humidity: 72%

SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	—
2	Fineness by Air permeability method (m ² /kg.Min)	285.4	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Exec. Eng.
A-6 (134)

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



FOR CIVIL PRO.

R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-01-28-80 Date: 05-09-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-2, Includes 3 works 1) Desilting and Repairs to Side Walls of Storm Water Drain From Byatarayanapura Ayyappa Temple Road to Bata Showroom (near NH-7 Bellary Road) From L and T Compound to Venkatesh Reddy House at Byatarayanapura, From Kriyanna House to Mandi Appaiah Farm House and From Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and Improvements of Toilets in Kempura, Yogeshnagara, Amruthanagara and Surrounding Areas in Ward No.07, Byatarayanapura. 3) Improvements to Burial Grounds and Crematorium in Ward No.07, Byatarayanapura.
Agency : M/s.Nischal Constructions, Sri.Naveen Rao N, No.363, 10th Main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560 079.
Customer's Reference : BBMP/EE/BTP/WO/71/2018-19
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 01-09-20
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 01-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken		15000 grams				
Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-01-28-80 Date: 01-09-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-2, Includes 3 works: 1) Dewatering and Repairs to Side Walls of Storm Water Drain From Hyattarayanapura Ayyappa Temple Road to Bata Showroom (near NH-7 Bellary Road) From L and T Compound to Venkatesh Reddy House at Hyattarayanapura, From Kalyanna House to Mandi Appaladi Farm House and From Gullappa Nursery (NH-7) to Ananthahalli Lake in Ward No.07, Hyattarayanapura. 2) Construction and Improvements of Follies in Kempura, Yogeshwara, Ananthanagara and Surrounding Areas in Ward No.07, Hyattarayanapura. 3) Improvements to Burial Grounds and Crematorium in Ward No.07, Hyattarayanapura.

Agency : M/s.Nischal Constructions, Sri.Naveen Rao N, No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore-560 079.
Customer Reference : BBMP/RI/WT/WO/71/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 01-09-20
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 01-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained In gms	Cumulative Weight Retained In gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-01-28-80 Date: 03-09-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-2, Includes 3 works 1) Desilting and Repairs to Side Walls of Storm Water Drain From Byatarayanapura Ayyappa Temple Road to Bata Showroom (near NH-7 Bellary Road) From L and T Compound to Venkatesh Reddy House at Byatarayanapura, From Kriyanna House to Mandi Appaiah Farm House and From Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and Improvements of Toilets in Kempura, Yogeshnagara, Amruthanagara and Surrounding Areas in Ward No.07, Byatarayanapura. 3) Improvements to Burial Grounds and Crematorium in Ward No.07, Byatarayanapura.

Agency : M/s.Nischal Constructions, Sri.Naveen Rao N, No.363, 10th Main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560 079.

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-09-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 01-09-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-01-28-80

Date: 03-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

Asst. Eng. N.D.
AEL

g.p.
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



FOR CIVIL Pro.

R. Karthik Rechan
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****



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TEST RESULTS OF STEEL

Lab ID : CP-2021-01-28-80 **Date:** 02-09-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-2, Includes 3 works 1) Desilting and Repairs to Side Walls of Storm Water Drain From Byatarayanapura Ayyappa Temple Road to Bata Showroom (near NH-7 Bellary Road) From L and T Compound to Venkatesh Reddy House at Byatarayanapura, From Kriyanna House to Mandi Appaiah Farm House and From Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and Improvements of Toilets in Kempura, Yogeshnagara, Amruthanagara and Surrounding Areas in Ward No.07, Byatarayanapura. 3) Improvements to Burial Grounds and Crematorium in Ward No.07, Byatarayanapura.
Agency : M/s.Nischal Constructions, Sri.Naveen Rao N, No.363, 10th Main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560 079.
Customer's Reference : BBMP/EE/BTP/WO/71/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 01-09-20
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test : 01-09-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

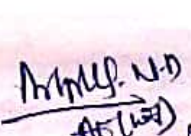
The results pertain to the samples received and tested.

All information furnished by Customer/Representative

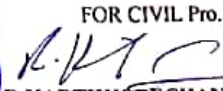
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R. KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

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 End of Report

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2021-01-28-80 Date: 19-09-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-2, Includes 3 works 1) Desilting and Repairs to Side Walls of Storm Water Drain From Byatarayanapura Ayyappa Temple Road to Bata Showroom (near NH-7 Bellary Road) From L and T Compound to Venkatesh Reddy House at Byatarayanapura, From Kriyanna House to Mandi Appaiah Farm House and From Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura. 2) Construction and Improvements of Toilets in Kempura, Yogeshnagara, Amruthanagara and Surrounding Areas in Ward No.07, Byatarayanapura. 3) Improvements to Burial Grounds and Crematorium in Ward No.07, Byatarayanapura.

Agency : M/s.Nischal Constructions, Sri.Naveen Rao N, No.363, 10th Main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560 079.

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-09-20

Sample Type/Size : Solid concrete blocks size (400X150X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1: Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 16-09-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	404	152	200	12282	33.302	2711.5	2656.9	Not less than 1800Kg/m ³
2	402	151	199	12080	31.458	2604.2		
3	400	148	202	11958	31.750	2655.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2021-01-28-80

Date: 19-09-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	152	200	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	403	152	202	
3	402	153	201	
4	403	149	199	
5	400	150	199	
6	402	149	203	
7	402	151	202	
8	400	153	200	
9	401	150	203	
10	400	150	199	
11	404	151	202	
12	399	151	202	
13	403	152	201	
14	400	152	199	
15	401	153	203	
16	400	149	200	
17	400	150	199	
18	401	151	203	
19	402	152	199	
20	401	151	201	
Average of 20	401	151	201	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-28-80 Date: 15/09/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-2, Includes 3 works 1) Desilting and Repairs to Side Walls of Storm Water Drain From Byatarayanapura Ayyappa Temple Road to Bata Showroom (near NH-7 Bellary Road) From L and T Compound to Venkatesh Reddy House at Byatarayanapura, From Kriyanna House to Mandi Appaiah Farm House and From Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No.07, Byatarayanapura 2) Construction and Improvements of Toilets in Kempura, Yogeshnagara, Amruthanagara and Surrounding Areas in Ward No.07, Byatarayanapura. 3) Improvements to Burial Grounds and Crematorium in Ward No.07, Byatarayanapura.

Agency : M/s Nischal Constructions, Sri Naveen Rao N, No.363, 10th Main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560 079.

Customer's Reference : BBMP/AEE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-09-20

Customer ID : Toilet 3 Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Toilet 3 Footing Concrete	M20	08/09/2020	15/09/2020	151.28 X 150.78 X 149.86	22811	8.928	426.3	18.7	18.4
2	Toilet 3 Footing Concrete	M20	08/09/2020	15/09/2020	151.20 X 150.12 X 149.83	22698	8.800	412.2	18.2	
3	Toilet 3 Footing Concrete	M20	08/09/2020	15/09/2020	149.42 X 151.34 X 149.44	22614	8.986	414.0	18.3	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

Signature of Assistant Executive Engineer
Signature of Assistant Executive Engineer
 Assistant Executive Engineer
 Kodigehalli Sub Division
 BBMP, Bangalore



FOR CIVIL Pro.
Signature of R. KARTHIK RECHAN
 R. KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-28-80 Date: 26/09/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-2, Includes 3 works 1) Desilting and Repairs to Side Walls of Storm Water Drain From Byatarayanapura Ayyappa Temple Road to Bata Showroom (near NH-7 Bellary Road) From L and T Compound to Venkatesh Reddy House at Byatarayanapura, From Kriyanna House to Mandi Appaiah Farm House and From Gullappa Nursery (NH-7) to Amruthahalli Lake in Ward No 07, Byatarayanapura. 2) Construction and Improvements of Toilets in Kempura, Yogeshnagara, Amruthanagara and Surrounding Areas in Ward No.07, Byatarayanapura. 3) Improvements to Burial Grounds and Crematorium in Ward No.07, Byatarayanapura.

Agency : M/s Nischal Constructions, Sri Naveen Rao N, No.363, 10th Main, 1st Cross, Sampigelayout, Vijayanagara, Bangalore-560 079.

Customer's Reference : BBMP/EE/BTP/WO/71/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-09-20

Customer ID : Toilet 3 Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 26/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Toilet 3 Plinth Beam Concrete	M20	19/09/2020	26/09/2020	149.66 X 152.00 X 149.44	22748	8.928	430.7	18.9	18.7
2	Toilet 3 Plinth Beam Concrete	M20	19/09/2020	26/09/2020	149.01 X 151.77 X 150.61	22614	8.800	423.2	18.7	
3	Toilet 3 Plinth Beam Concrete	M20	19/09/2020	26/09/2020	150.97 X 150.23 X 149.87	22681	8.986	418.7	18.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

(Signature)
Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



FOR CIVIL PRO

(Signature)
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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